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REMARKS

The Examiner's Advisory Action of October 10, 2004 has been received and its contents carefully considered. Reconsideration is respectfully requested in view of the Amendment and the following comments.

Claims 10-15 are currently pending. Claims 10 and 14 have been amended. Claims 16 and 17 have been cancelled.

I. Amendments to the Claims

Claims 10 and 14 have been amended with the Examiner's comments, and especially the comments in the Office Action of February 23, 2004, having been taken into account. Reference is made in this regard to a telephone interview between undersigned and Examiner on November 25, 2003, during which the merits of the application were discussed. At that time, Examiner had suggested that changes to the claims indicating differing dimensions on each side of the silicon medium (i.e. the land grid array side in mils versus the semiconductor side in microns) would overcome rejections in view of Van Pham and in view of a combination of Van Pham and Petrarca et al. See RCE Submission by Applicant of January 15, 2004, Section I. The requested changes having been made, the Examiner applied a Section 112, second paragraph rejection of the then amended claims in an Office Action dated February 23, 2004. The response filed to the latter Office Action filed by an attorney other than the undersigned then entered new amendments to the claims which prompted the final Action of July 29, 2004. The instant amendments reintroduce the amendments discussed with the Examiner

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on November 25, 2003, while, in addition, taking the Examiner Section 112, second paragraph rejections of February 23, 2004 into account.

Support for the amendments to the claims in the instant submission may be found throughout the specification, and in particular in paragraphs [0003], [00017] and [00029].

II. Rejection under 35 USC 103(a)

A. Van Pham et al. in view of Eldridge et al.

Claims 10-12, 14 and 16-17 stand rejected under 35 USC 103(a) as being unpatentable over Van Pham et al. in view of Eldridge et al. Reconsideration is respectfully requested.

The rejection of claims 16 and 17 has been mooted by virtue of their cancellation.

Van Pham et al. do not disclose a space transformer. In addition, Van Pham et al. do not disclose: land grid array side contacts disposed on the land grid array side of the silicon medium and having their largest dimension and their pitch in the order of mils to define a macro-pitch scale; and semiconductor side contacts disposed on the semiconductor side of the silicon medium and having their largest dimension and their pitch in the order of microns to define a micro-pitch scale, the electrical contact zones being disposed to convert a macro-pitch scale of the land grid array side contacts to the micro-pitch scale of the semiconductor side contacts as set forth in independent claims 10 and 14. First, although Van Pham's Fig. 3A shows contacts 18 as being smaller than contacts 20 in Fig. 3B, and although the pitch between some of the contacts 18 is smaller than the pitch between contacts 20 in Fig. 3B, the pitch between adjacent ones of contacts

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18 on opposite sides of contact surface 14 is much larger than the pitch of contacts 20 on bonding surface 16, as clearly shown in Fig. 4. In addition, Van Pham et al. fail to disclose electrical contact zones that are disposed to convert a macro-pitch scale to a micro-pitch scale. To the contrary, as shown in Fig. 4, electrical contact zones between surface 16 and surface 14 expand outward to connect each of the contacts 20 to each of the contacts 18, therefore expanding the scale from surface 16 toward surface 14.

Eldridge et al. do nothing to overcome the deficiencies in Van Pham et al. There is no suggestion in either Van Pham et al. or in Eldridge et al. to combine the references as suggested by the Examiner to arrive at embodiments of the instant invention as recited in independent claims 10 and 14. If Van Pham et al. were modified in view of Eldridge et al. as suggested by the Examiner, the interposer therein would stop working for its intended purpose. There is, as noted above, a disincentive for modifying Van Pham et al. as suggested by the Examiner.

In view of the above, it is respectfully requested that the Examiner reconsider and withdraw his rejection of the claims under Section 103(a) as being unpatentable over Van Pham et al. in view of Eldridge et al.

B. Van Pham et al. in view of Eldridge et al., further in view of Petrarca et al., and Matsuo et al.

Claims 13 and 15 have been rejected under Section 103(a) as being unpatentable over a combination of Van Pham et al., Eldridge et al., further in view of Petrarca et al.,

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and Matsuo et al. Reconsideration is respectfully submitted in view of the following comments.

Petrarca et al. and Matsuo et al. have been cited for their disclosure of an adhesion promoter. These references, however, fail to make up for the deficiencies of Van Pham et al. and of Eldridge et al. noted above.

In view of the above, it is respectfully requested that the Examiner reconsider and withdraw his rejection of the claims under Section 103(a) as being unpatentable over Van Pham et al. in view of Eldridge et al, and further in view of Petrarca et al. and Matsuo et al.

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CONCLUSION

All of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider all currently outstanding rejections and that they be withdrawn. It is believed that a full and complete response has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Response is respectfully requested.

Respectfully submitted,

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